

MMM		MMM	TTTTTTTTTTTTTTTT		AAAAAAAAA		AAAAAAAAA		CCCCCCCCCCCC		PPPPPPPPPPPP
MMM		MMM	TTTTTTTTTTTTTTTT		AAAAAAAAA		AAAAAAAAA		CCCCCCCCCCCC		PPPPPPPPPPPP
MMM		MMM	TTTTTTTTTTTTTTTT		AAAAAAAAA		AAAAAAAAA		CCCCCCCCCCCC		PPPPPPPPPPPP
MMMMMM	MMMMMM		TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMMMMM	MMMMMM		TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMMMMM	MMMMMM		TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMM	MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMM	MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMM	MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	PPP
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPPPPPPPPPPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPPPPPPPPPPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPPPPPPPPPPP	
MMM		MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC		PPP	
MMM		MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC		PPP	
MMM		MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCCCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCCCC		PPP	
MMM		MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCCCC		PPP	

HH	HH	EEEEEEEEEE	AAAAAA	DDDDDDDD	EEEEEEEEEE	RRRRRRRR	
HH	HH	EEEEEEEEEE	AAAAAA	DDDDDDDD	EEEEEEEEEE	RRRRRRRR	
HH	HH	EE	AA	DD	EE	RR	RR
HH	HH	EE	AA	DD	EE	RR	RR
HH	HH	EE	AA	DD	EE	RR	RR
HH	HH	EE	AA	DD	EE	RR	RR
HH	HH	EEEEEEEEEE	AA	DD	EEEEEEEEEE	RRRRRRRR	
HH	HH	EEEEEEEEEE	AA	DD	EEEEEEEEEE	RRRRRRRR	
HH	HH	EE	AAAAAAAAAA	DD	EE	RR	RR
HH	HH	EE	AAAAAAAAAA	DD	EE	RR	RR
HH	HH	EE	AA	DD	EE	RR	RR
HH	HH	EE	AA	DD	EE	RR	RR
HH	HH	EEEEEEEEEE	AA	DDDDDDDD	EEEEEEEEEE	RR	RR
HH	HH	EEEEEEEEEE	AA	DDDDDDDD	EEEEEEEEEE	RR	RR

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS


```
0001 0
0002 0 MODULE HEADER (LANGUAGE (BLISS32) ,
0003 0 IDENT = 'V04-000' ,
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0011 1 * ALL RIGHTS RESERVED.
0012 1 *
0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0018 1 * TRANSFERRED.
0019 1 *
0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0022 1 * CORPORATION.
0023 1 *
0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1 ++
0031 1
0032 1 FACILITY: MTAACP
0033 1
0034 1 ABSTRACT:
0035 1 This module contains routines which position to headers or trailers
0036 1 and read them.
0037 1
0038 1 ENVIRONMENT:
0039 1
0040 1 Starlet operating system, including privileged system services
0041 1 and internal exec routines.
0042 1
0043 1 --
0044 1
0045 1
0046 1
0047 1 AUTHOR: D. H. GILLESPIE, CREATION DATE: 25-MAY-77 15:00
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1 V03-006 MMD0323 Meg Dumont, 13-Aug-1984 15:17
0052 1 Fix to fix MMD0285, the way it was implemented the call
0053 1 wasn't getting made.
0054 1
0055 1 V03-005 MMD0300 Meg Dumont, 20-Jun-1984 11:23
0056 1 Fix to default Buffer offset length to zeros, when no HDR2
0057 1 is present for the file.
```



```

58 0058 1
59 0059 1
60 0060 1
61 0061 1
62 0062 1
63 0063 1
64 0064 1
65 0065 1
66 0066 1
67 0067 1
68 0068 1
69 0069 1
70 0070 1
71 0071 1
72 0072 1
73 0073 1
74 0074 1
75 0075 1
76 0076 1
77 0077 1
78 0078 1
79 0079 1
80 0080 1
81 0081 1
82 0082 1
83 0083 1
84 0084 1
85 0085 1
86 0086 1
87 0087 1
88 0088 1
89 0089 1
90 0090 1
91 0091 1
92 0092 1
93 0093 1
94 0094 1
95 0095 1
96 0096 1
97 0097 1
98 0098 1
99 0099 1
100 0100 1
101 0101 1
102 0102 1
103 0103 1
104 0104 1
105 0105 1
106 0106 1
107 0107 1
108 0108 1
109 0109 1
110 0493 1
111 0494 1
112 0495 1
113 0496 1
114 0497 1

V03-004 MMD0285 Meg Dumont, 6-Apr-1984 17:18
Fix to READ_HDR to include calling the clear
serious exception routine after the headers are
read. This is so that we do not leave the
TMSCP drives left in serious exception state
if we read into the TM while reading the headers.

V03-003 MMD0280 Meg Dumont, 23-Mar-1984 10:27
Fix long file name support such that for ANSI version
3 volumes it converts the exentsion length to
ASCII characters before writing it to the label.

V03-002 ROW0258 Ralph O. Weber 21-NOV-1983
The Paul Painter Memorial Enhancement
Named for one of the unfortunate customers who suffered much
to determine the great UCB$MT_RECORD secret while trying to
create a user-written magtape driver, this change eliminates
use of the device dependent field, UCB$MT_RECORD in favor of
the device independent field, UCB$MT_RECORD.

V03-001 MMD0162 Meg Dumont, 26-Apr-1983 9:36
Change reference to 80 to the symbol ANSI_LBLSZ. Change READ_HDR
to read in the HDR4 label or if not found to default the values.

V02-010 REFORMAT Maria del C. Nasr 30-Jun-1980

V02-009 MCN0016 Maria del C. Nasr, 18-Jun-1980 11:55
Initialize default HDR2 with blanks, instead of zeroes, to
avoid setting the old RMS attributes field.

A0008 MCN0013 Maria del C. Nasr 11-Mar-1980 11:25
Check for HDR3 instead of HDR2 to determine if current file
should be included in search or not.

A0007 MCN0011 Maria del C. Nasr 04-Feb-1980 9:05
Add input parameter to UPDVCB_LEOV routine to either clear
or set flag, and make routine global.

A0006 MCN0003 Maria del C. Nasr 28-Sep-79 10:39
Add HDR3 processing

A0005 SPR24948 Maria del C. Nasr 11-Sep-79 17:30
Forced spacing to eof when current position bit set to
fix bug.

**
LIBRARY 'SYSS$LIBRARY:LIB.L32';
REQUIRE 'SRC$MTADEF.B32';
FORWARD ROUTINE
READ_HDR : COMMON_CALL, ! read HDR1, HDR2, and HDR3 and HDR4 if exist
SPACE_EOF : COMMON_CALL NOVALUE, ! space to end of file
SET_NUMBER_OF_LABELS : COMMON_CALL NOVALUE, ! set the number of labels read

```


HEADER
V04-000

D 1
16-Sep-1984 02:22:07
14-Sep-1984 12:46:41

VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]HEADER.B32;1

Page 3
(1)

: 115	0498	1	UPDVCB LEQV	: COMMON_CALL NOVALUE,	! update VCB logical end of file
: 116	0499	1	MAKE_CUR_FILE	: COMMON_CALL NOVALUE,	! update VCB
: 117	0500	1	WRAP_AROUND	: L\$WRAP_AROUND;	! continue search at beginning of volume set !
: 118	0501	1			
: 119	0502	1	EXTERNAL		
: 120	0503	1	CURRENT_UCB	: REF BBLOCK,	
: 121	0504	1	IO_PACKET	: REF BBLOCK,	! address of IO request packet
: 122	0505	1	HDR1	: REF BBLOCK,	! address HDR1 label
: 123	0506	1	HDR2	: REF BBLOCK,	! address of HDR2 label
: 124	0507	1	HDR3	: REF BBLOCK,	! address of HDR3 label
: 125	0508	1	HDR4	: REF BBLOCK,	! address of HDR4 label
: 126	0509	1			


```

: 128 0510 1 GLOBAL ROUTINE GET_START_HDR : L$GET_START_HDR =
: 129 0511 1
: 130 0512 1 !++
: 131 0513 1
: 132 0514 1 FUNCTIONAL DESCRIPTION:
: 133 0515 1 This routine positions to the header label set of the start file
: 134 0516 1 in current search and reads HDR1, HDR2, HDR3 and HDR4 labels unless
: 135 0517 1 they have already been read.
: 136 0518 1
: 137 0519 1 CALLING SEQUENCE:
: 138 0520 1 GET_START_HDR()
: 139 0521 1
: 140 0522 1 INPUT PARAMETERS:
: 141 0523 1 none
: 142 0524 1
: 143 0525 1 IMPLICIT INPUTS:
: 144 0526 1 CURRENT_VCB, CURRENT_UCB
: 145 0527 1
: 146 0528 1 OUTPUT PARAMETERS:
: 147 0529 1 none
: 148 0530 1
: 149 0531 1 IMPLICIT OUTPUTS:
: 150 0532 1 HDR1 read in, HDR2 read in or defaulted, HDR3 read in or defaulted
: 151 0533 1 HDR4 read in or defaulted
: 152 0534 1
: 153 0535 1 ROUTINE VALUE:
: 154 0536 1 0 unsuccessful, logical end of volume set
: 155 0537 1 1 successful
: 156 0538 1
: 157 0539 1 SIDE EFFECTS:
: 158 0540 1 none
: 159 0541 1
: 160 0542 1 --
: 161 0543 1
: 162 0544 2 BEGIN
: 163 0545 2
: 164 0546 2 EXTERNAL REGISTER
: 165 0547 2 COMMON_REG;
: 166 0548 2
: 167 0549 2 EXTERNAL ROUTINE
: 168 0550 2 MOUNT_VOL : COMMON_CALL; ! mount volume
: 169 0551 2
: 170 0552 2 EXTERNAL
: 171 0553 2 CURRENT_UCB : REF BBLOCK, ! address of current ucb
: 172 0554 2 LOCAL_FIB : BBLOCK; ! copy of user's fib
: 173 0555 2
: 174 0556 2 LOCAL
: 175 0557 2 RELATIVE_BLOCK, ! relative block number to last tm
: 176 0558 2 TM; ! number of tm's
: 177 0559 2
: 178 0560 2 ! mount volume if the current relative volume number is zero
: 179 0561 2 !
: 180 0562 2
: 181 0563 2 IF .CURRENT_VCB[VCBSB_CUR_RVN] EQL 0
: 182 0564 2 THEN
: 183 0565 2 MOUNT_VOL(1, $FIELDMASK(MOUSV_REWIND) + $FIELDMASK(MOUSV_LBLCHECK));
: 184 0566 2

```



```

185 0567 2 ! if at logical end of volume set, return immediately
186 0568 2 !
187 0569 2
188 0570 2 IF .CURRENT_VCB[VCB$V_LOGICEOVS]
189 0571 2 THEN
190 0572 2     RETURN 0;
191 0573 2
192 0574 2 ! If the number of tape marks into the file is not 0, then the previous file
193 0575 2 ! was closed prematurely and should not be included in search except in the
194 0576 2 ! case where there is no HDR3 and the tape is left positioned beyond the
195 0577 2 ! tm. If the section is not the first, then space to next file
196 0578 2 !
197 0579 2
198 0580 2 IF (.CURRENT_VCB[VCB$B_TM] NEQU 0
199 0581 2     AND
200 0582 2     NOT (.CURRENT_VCB[VCB$B_TM] EQLU 1 AND .HDR3[HD3$L_HD3LID] NEQU 'HDR3'
201 0583 2     AND
202 0584 2     (.CURRENT_UCB[UCB$L_RECORD] - .CURRENT_VCB[VCB$L_ST_RECORD]) EQLU 0))
203 0585 2     OR
204 0586 2     .CURRENT_VCB[VCB$W_CUR_SEQ] GTR 1
205 0587 2 THEN
206 0588 2     SPACE_EOF() ! position to beginning of next file
207 0589 2 ELSE
208 0590 2
209 0591 2     ! If function is create, and current position bit is set, then force
210 0592 2     ! spacing to end of file, unless positioned in dummy file header set...
211 0593 2     !
212 0594 2
213 0595 2     IF ((.IO_PACKET[IRP$V_FCODE] EQL IO$_CREATE) AND .LOCAL_FIB[FIB$V_CURPOS])
214 0596 2         AND
215 0597 2         (.CURRENT_VCB[VCB$B_TM] NEQU 0) AND (.CURRENT_VCB[VCB$W_CUR_NUM] NEQU 0)
216 0598 2     THEN
217 0599 2         SPACE_EOF();
218 0600 2
219 0601 2 ! When new volume is mounted, VOL1 has been read but not the header labels.
220 0602 2 ! Therefore, the actual block count equals 1. If relative block count = 0,
221 0603 2 ! then the headers have not been read for this file.
222 0604 2 !
223 0605 2 RELATIVE_BLOCK = .CURRENT_UCB[UCB$L_RECORD] - .CURRENT_VCB[VCB$L_ST_RECORD];
224 0606 2
225 0607 2 IF (.RELATIVE_BLOCK EQL 0 OR .CURRENT_UCB[UCB$L_RECORD] EQLU 1)
226 0608 2     AND
227 0609 2     .CURRENT_VCB[VCB$B_TM] EQLU 0
228 0610 2 THEN
229 0611 2     RETURN READ_HDR();
230 0612 2
231 0613 2 RETURN 1;
232 0614 2
233 0615 1 END;

```

! end of routine

```

.TITLE  HEADER
.IDENT  \V04-000\

.EXTRN  CURRENT_UCB, IO_PACKET
.EXTRN  HDR1, HDR2, HDR3
.EXTRN  HDR4, MOUNT_VOL

```


.EXTRN LOCAL_FIB
.PSECT \$CODE\$,NOWRT,2

			5A	DD	00000	GET_START HDR::			
			2F	AB	95	00002	PUSHL	R10	: 0510
				09	12	00005	TSTB	47(CURRENT_VCB)	: 0563
				03	DD	00007	BNEQ	1\$	
				01	DD	00009	PUSHL	#3	: 0565
				02	FB	0000B	PUSHL	#1	
73	0000G	CF		01	E0	00010	CALLS	#2, MOUNT_VOL	
	0B	AB		01	D4	00015	BBS	#1, 11(CURRENT_VCB), 7\$: 0570
				5A	D4	00015	CLRL	R10	: 0580
			2E	AB	95	00017	TSTB	46(CURRENT_VCB)	
				20	13	0001A	BEQL	2\$	
				5A	D6	0001C	INCL	R10	
		01	2E	AB	91	0001E	CMPB	46(CURRENT_VCB), #1	: 0582
				39	12	00022	BNEQ	3\$	
	33524448	8F	0000G	DF	D1	00024	CMPL	@HDR3, #861029448	
				2E	13	0002D	BEQL	3\$	
		50	0000G	CF	D0	0002F	MOVL	CURRENT_UCB, R0	: 0584
	30	AB	00B0	C0	D1	00034	CMPL	176(R0), 48(CURRENT_VCB)	
				21	12	0003A	BNEQ	3\$	
		01	26	AB	B1	0003C	CMPW	38(CURRENT_VCB), #1	: 0586
				1B	1A	00040	BGTRU	3\$	
33		50	0000G	CF	D0	00042	MOVL	IO_PACKET, R0	: 0595
	20	A0		00	ED	00047	CMPZV	#0, #6, 32(R0), #51	
				13	12	0004D	BNEQ	4\$	
		0D	0000G	04	E1	0004F	BBC	#4, LOCAL_FIB, 4\$	
		0A		5A	E9	00055	BLBC	R10, 4\$: 0597
			24	AB	B5	00058	TSTW	36(CURRENT_VCB)	
				05	13	0005B	BEQL	4\$	
	0000V	CF		00	FB	0005D	CALLS	#0, SPACE_EOF	: 0599
		50	0000G	CF	D0	00062	MOVL	CURRENT_UCB, R0	: 0605
51	00B0	C0	30	AB	C3	00067	SUBL3	48(CURRENT_VCB), 176(R0), RELATIVE_BLOCK	
				07	13	0006E	BEQL	5\$: 0607
		01	00B0	C0	D1	00070	CMPL	176(R0), #1	
				0C	12	00075	BNEQ	6\$	
			2E	AB	95	00077	TSTB	46(CURRENT_VCB)	: 0609
				07	12	0007A	BNEQ	6\$	
	0000V	CF		00	FB	0007C	CALLS	#0, READ_HDR	: 0611
		50		07	11	00081	BRB	8\$	
				01	D0	00083	MOVL	#1, R0	: 0613
				02	11	00086	BRB	8\$	
				50	D4	00088	CLRL	R0	: 0615
		5A		8E	D0	0008A	MOVL	(SP)+, R10	
				05	0008D	RSB			

; Routine Size: 142 bytes, Routine Base: \$CODE\$ + 0000

; 234 0616 1


```

236 0617 1 GLOBAL ROUTINE READ_HDR : COMMON_CALL =
237 0618 1
238 0619 1 ++
239 0620 1
240 0621 1 FUNCTIONAL DESCRIPTION:
241 0622 1     Read HDR1, and HDR2 if it exists - otherwise, it is defaulted.
242 0623 1     HDR3 is read only if HDR2 is found, and if starlet file. HDR4
243 0624 1     is read if the HDR3 is read.
244 0625 1
245 0626 1 CALLING SEQUENCE:
246 0627 1     READ_HDR()
247 0628 1
248 0629 1 INPUT PARAMETERS:
249 0630 1     none
250 0631 1
251 0632 1 IMPLICIT INPUTS:
252 0633 1     CURRENT_VCB - address of VCB
253 0634 1
254 0635 1 OUTPUT PARAMETERS:
255 0636 1     none
256 0637 1
257 0638 1 IMPLICIT OUTPUTS:
258 0639 1     HDR1, HDR2, HDR3 , and HDR4 read in
259 0640 1     If starlet file, VCB notes this fact
260 0641 1     Also the number of labels that the mtaacp found is set in the VCB
261 0642 1     If logical end of tape (ie: tm encountered on read of HDR1) then this fact is noted in VCB
262 0643 1
263 0644 1 ROUTINE VALUE:
264 0645 1     0 - tm encountered when reading HDR1, logical end of volume set
265 0646 1     1 - successful
266 0647 1
267 0648 1 SIDE EFFECTS:
268 0649 1     First user label may be located in scratch label area
269 0650 1
270 0651 1 USER ERRORS:
271 0652 1     $$$_TAPEPOSLOST - HDR1 not encountered on read
272 0653 1
273 0654 1 --
274 0655 1
275 0656 2 BEGIN
276 0657 2
277 0658 2 LOCAL
278 0659 2     MVL      : REF BBLOCK,
279 0660 2     NUMBER_OF_LABELS,
280 0661 2     SCRATCH : REF BBLOCK,
281 0662 2     DESCR   : VECTOR [2,LONG];
282 0663 2
283 0664 2 EXTERNAL REGISTER
284 0665 2     COMMON_REG;
285 0666 2
286 0667 2 EXTERNAL ROUTINE
287 0668 2     CHCK_IO CLR_EXCP : COMMON_CALL NOVALUE,
288 0669 2     ISSUE_IO       : L$ISSUE_IO,      ! Issue an IO to tape drive
289 0670 2     READ_BLOCK     : COMMON_CALL;    ! read one magtape block
290 0671 2
291 0672 2 BIND
292 0673 2     CVT5 = DESCRIPTOR('!5ZW'),

```

```

293 0674 2      DEFAULT = UPLIT ('00512');
294 0675 2
295 0676 2      ! Initialize the number of labels read. This number will eventually
296 0677 2      ! be stored in the VCB and will be used on volume switch and file close
297 0678 2      ! to determine the number of labels to write to the tape
298 0679 2
299 0680 2      NUMBER_OF_LABELS = 0;
300 0681 2      IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
301 0682 2      THEN
302 0683 2          BEGIN
303 0684 2              KERNEL_CALL(UPDVCB_LEOV, 1);
304 0685 2              RETURN 0;
305 0686 2
306 0687 2          END;
307 0688 2
308 0689 2      WHILE 1
309 0690 2      DO
310 0691 2          BEGIN
311 0692 2
312 0693 2              IF .HDR1[HD1$$_HD1LID] EQLU 'HDR1'
313 0694 2              THEN
314 0695 2                  EXITLOOP;
315 0696 2
316 0697 2              IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
317 0698 2              THEN
318 0699 2                  ERR_EXIT(SS$_TAPEPOSLOST);
319 0700 2
320 0701 2          END;
321 0702 2
322 0703 2      NUMBER_OF_LABELS = 1;
323 0704 2      KERNEL_CALL(MAKE_CUR_FILE, .HDR1);
324 0705 2
325 0706 2      ! Default HDR2, HDR3, and HDR4 values
326 0707 2
327 0708 2      CH$FILL(' ', ANSI_LBLSZ, .HDR2);
328 0709 2      CH$FILL(0, ANSI_LBLSZ, .HDR3);
329 0710 2      CH$FILL(' ', ANSI_LBLSZ, .HDR4);
330 0711 2
331 0712 2      ! Default the HDR4 fields according to the version type.
332 0713 2
333 0714 2      MVL = .CURRENT_VCB[VCB$_MVL];
334 0715 2      IF .MVL[MVL$_STDVER] GTR 3
335 0716 2      THEN
336 0717 2          HDR4[HD4$_FILEID_EXT_SIZE] = 0
337 0718 2          ! Default size to 0
338 0719 2      ELSE
339 0720 2          CH$FILL('0', HD4$_FILEID_EXT_V3, HDR4[HD4$_FILEID_EXT_V3]);
340 0721 2
341 0722 2      HDR2[HD2$_RECFORMAT] = 'F';
342 0723 2      DESCR[0] = HD2$_BLOCKLEN;
343 0724 2      DESCR[1] = HDR2[HD2$_BLOCKLEN];
344 0725 2
345 0726 2      IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_UCB[UCB$_DEVBUFSIZ])
346 0727 2      THEN
347 0728 2          CH$MOVE(HD2$_BLOCKLEN, DEFAULT, HDR2[HD2$_BLOCKLEN]);
348 0729 2
349 0730 2      CH$MOVE(HD2$_RECLN, HDR2[HD2$_BLOCKLEN], HDR2[HD2$_RECLN]);

```



```

350 0731 2 IF .CURRENT_VCB[VCB$W_RECORDSZ] NEQ 0
351 0732 THEN
352 0733 BEGIN
353 0734 DESCR[0] = HD2$S_RECLEN;
354 0735 DESCR[1] = HDR2[HDR2$T_RECLEN];
355 0736
356 0737 IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_VCB[VCB$W_RECORDSZ])
357 0738 THEN
358 0739 CH$MOVE(HD2$S_RECLEN, HDR2[HDR2$T_BLOCKLEN], HDR2[HDR2$T_RECLEN]);
359 0740
360 0741 END;
361 0742
362 0743 ! Set up the default buffer offset length field. In case there
363 0744 ! is no HDR2 label
364 0745 HDR2[HDR2$T_BUFOFF] = '00';
365 0746
366 0747 ! Set up the Scratch area to read the labels into to determine if
367 0748 ! this is a good label, before copying it into the real label field.
368 0749
369 0750 SCRATCH = .HDR1 + SCRATCH_OFFSET;
370 0751
371 0752 ! Now try to read HDR2
372 0753
373 0754 !
374 0755
375 0756 IF READ_BLOCK(.SCRATCH, ANSI_LBLSZ) ! read into scratch area
376 0757 THEN
377 0758
378 0759 IF .(.SCRATCH) EQLU 'HDR2'
379 0760 THEN
380 0761 BEGIN
381 0762 CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR2); ! HDR2 found
382 0763 NUMBER_OF_LABELS = 2;
383 0764
384 0765 IF .CURRENT_VCB[VCB$V_STARFILE] ! if starlet file
385 0766 THEN
386 0767 BEGIN
387 0768 IF READ_BLOCK(.SCRATCH, ANSI_LBLSZ) ! try to read HDR3
388 0769 THEN
389 0770 BEGIN
390 0771 IF .(.SCRATCH) EQLU 'HDR3'
391 0772 THEN
392 0773 BEGIN
393 0774 CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR3); ! HDR3 found
394 0775 NUMBER_OF_LABELS = 3;
395 0776 END;
396 0777 IF READ_BLOCK(.SCRATCH, ANSI_LBLSZ) ! try to read HDR4
397 0778 THEN
398 0779 IF .(.SCRATCH) EQLU 'HDR4'
399 0780 THEN
400 0781 BEGIN
401 0782 CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR4); ! HDR4 found
402 0783 NUMBER_OF_LABELS = 4;
403 0784 END;
404 0785 END;
405 0786 END;
406 0787 END;

```



```

: 407
: 408
: 409
: 410
: 411
: 412
: 413
: 414
: 415
0788 2
0789 2
0790 2
0791 2
0792 2
0793 2
0794 2
0795 2
0796 1

```

```

! Call to clear TMSCP drives of the serious exception (reading the tape
! mark) before returning to the user

CHK IO CLR EXCP();
KERNEL_CALL(SET_NUMBER_OF_LABELS, NUMBER_OF_LABELS);
RETURN 1; ! return success

END; ! end of routine

```

```

57 5A 35 21 0008E P.AAB: .ASCII \!5ZW\
00092 .BLKB 2
00000004 00094 P.AAA: .LONG 4
00000000 00098 .ADDRESS P.AAB
00 00 00 32 31 35 30 30 0009C P.AAC: .ASCII \00512\<0><0><0>

```

```

CVT5=
DEFAULT=
P.AAA
P.AAC
.EXTRN CHK IO CLR EXCP
.EXTRN ISSUE IO, READ_BLOCK
.EXTRN SYSSCMKRNL, SYSSFAO

```

```

07FC 00000
5A 0000G CF 9E 00002
59 00000000G 9F 9E 00007
5E 08 C2 0000E
58 D4 00011
7E 50 8F 9A 00013
0000G CF DD 00017
0000G 02 FB 0001B
10 50 E8 00020
01 DD 00023
01 DD 00025
5E DD 00027
0000V CF 9F 00029
69 04 FB 0002D
0165 31 00030
31524448 8F 0000G DF D1 00033 1$:
16 13 0003C
7E 50 8F 9A 0003E
0000G CF DD 00042
0000G 02 FB 00046
E5 50 E8 0004B
0224 8F BF 0004E
58 DF 11 00052
0000G 01 D0 00054 2$:
CF DD 00057
01 DD 0005B
5E DD 0005D
0000V CF 9F 0005F
69 04 FB 00063
57 6A D0 00066
0050 8F 20 6E 00 2C 00069
0050 8F 00 6E 00 2C 00070
00071

```

.ENTRY READ_HDR, Save R2,R3,R4,R5,R6,R7,R8,R9,R10 : 0617
 MOVAB HDR2, R10
 MOVAB @#SYSSCMKRNL, R9
 SUBL2 #8, SP
 CLRL NUMBER_OF_LABELS : 0680
 MOVZBL #80, -(SP) : 0681
 PUSHL HDR1
 CALLS #2, READ_BLOCK
 BLBS R0, 1\$
 PUSHL #1 : 0684
 PUSHL #1
 PUSHL SP
 PUSHAB UPDVCB LEOV
 CALLS #4, SYSSCMKRNL
 BRW 9\$: 0685
 CMPL @HDR1, #827475016 : 0693
 BEQL 2\$
 MOVZBL #80, -(SP) : 0697
 PUSHL HDR1
 CALLS #2, READ_BLOCK
 BLBS R0, 1\$
 CHMU #548 : 0699
 BRB 1\$: 0689
 MOVL #1, NUMBER_OF_LABELS : 0703
 PUSHL HDR1 : 0704
 PUSHL #1
 PUSHL SP
 PUSHAB MAKE_CUR_FILE
 CALLS #4, SYSSCMKRNL
 MOVL HDR2, R7 : 0708
 MOVCS #0, (SP), #32, #80, (R7)
 MOVCS #0, (SP), #0, #80, @HDR3 : 0709

HEADER
V04-000

M 1
16-Sep-1984 02:22:07 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:46:41 [MTAACP.SRC]HEADER.B32;1

Page 12
(3)

0000G	CF	57	DD	00164	PUSHL	SCRATCH	
	14	02	FB	00166	CALLS	#2, READ_BLOCK	
34524448	8F	50	E9	00168	BLBC	R0, 8\$	
		67	D1	0016E	CMPL	(SCRATCH), #877806664	0779
0000G	DF	0B	12	00175	BNEQ	8\$	
		8F	28	00177	MOVCL	#80, (SCRATCH), @HDR4	0782
		04	D0	0017F	MOVL	#4, NUMBER OF LABELS	0783
0000G	CF	00	FB	00182	CALLS	#0, CHCK_ID CLR_EXCP	0792
		58	DD	00187	PUSHL	NUMBER_OF_LABELS	0793
		01	DD	00189	PUSHL	#1	
		5E	DD	0018B	PUSHL	SP	
		CF	9F	0018D	PUSHAB	SET_NUMBER OF LABELS	
		69	04	FB	CALLS	#4, -SYS\$CMRNC	
		50	01	D0	MOVL	#1, R0	0794
			04	00197	RET		
		50	D4	00198	CLRL	R0	0796
			04	0019A	RET		

; Routine Size: 411 bytes, Routine Base: \$CODE\$ + 00A4

; 416 0797 1


```

418 0798 1 GLOBAL ROUTINE WRAP_AROUND : L$WRAP_AROUND =
419 0799 1
420 0800 1 !++
421 0801 1
422 0802 1 FUNCTIONAL DESCRIPTION:
423 0803 1     If this is not the first time through and the search started
424 0804 1     at the beginning of the volume set then return error else rewind volume set
425 0805 1
426 0806 1 CALLING SEQUENCE:
427 0807 1     WRAP_AROUND()
428 0808 1
429 0809 1 INPUT PARAMETERS:
430 0810 1     none
431 0811 1
432 0812 1 IMPLICIT INPUTS:
433 0813 1     LOCAL_FIB - copy of user's fib
434 0814 1     CURRENT_VCB - address of current volume VCB
435 0815 1
436 0816 1 OUTPUT PARAMETERS:
437 0817 1     none
438 0818 1
439 0819 1 IMPLICIT OUTPUTS:
440 0820 1     none
441 0821 1
442 0822 1 ROUTINE VALUE:
443 0823 1     0 back to beginning of search
444 0824 1     1 at beginning of volume set
445 0825 1
446 0826 1 SIDE EFFECTS:
447 0827 1     none
448 0828 1
449 0829 1 --
450 0830 1
451 0831 2 BEGIN
452 0832 2
453 0833 2 EXTERNAL REGISTER
454 0834 2     COMMON_REG;
455 0835 2
456 0836 2 EXTERNAL ROUTINE
457 0837 2     MOUNT_VOL      : COMMON_CALL,      ! mount volume
458 0838 2     REWIND_VOL_SET : COMMON_CALL;      ! rewind volume set
459 0839 2
460 0840 2 EXTERNAL
461 0841 2     LOCAL_FIB      : BBLOCK;      ! copy of user's fib
462 0842 2
463 0843 2 IF .CURRENT_VCB[VCB$START_FID] EQL %X'00010001'
464 0844 2 THEN
465 0845 2     RETURN 0
466 0846 2 ELSE
467 0847 2     BEGIN
468 0848 2         REWIND_VOL_SET();
469 0849 2
470 0850 2         ! get first volume mounted
471 0851 2
472 0852 2         MOUNT_VOL(1, $FIELDMASK(MOUNT_VOL_REWIND) + $FIELDMASK(MOUNT_VOL_LBLCHECK));
473 0853 2
474 0854 2     IF NOT READ_HDR()

```

```

: 475      0855 3
: 476      0856
: 477      0857
: 478      0858
: 479      0859
: 480      0860
: 481      0861
: 482      0862 1

      THEN
      ERR_EXIT(SS$_TAPEPOSLOST);

      END;

      RETURN 1;

      END;

```

! end of routine

.EXTRN REWIND_VOL_SET

00010001	8F	28	AB	D1	00000	WRAP_AROUND::		
			1E	13	00008	CMPL	40(CURRENT_VCB), #65537	: 0843
0000G	CF		00	FB	0000A	BEQL	2\$	
			03	DD	0000F	CALLS	#0, REWIND_VOL_SET	: 0848
			01	DD	00011	PUSHL	#3	: 0852
0000G	CF		02	FB	00013	PUSHL	#1	
FE48	CF		00	FB	00018	CALLS	#2, MOUNT_VOL	
	04		50	FB	0001D	CALLS	#0, READ_HDR	: 0854
		0224	8F	BF	00020	BLBS	R0, 1\$	
	50		01	D0	00024	CHMU	#548	: 0856
			05	00027	1\$:	MOVL	#1, R0	: 0860
			50	D4	00028	2\$:	CLRL	: 0862
			05	0002A		RSB	R0	

; Routine Size: 43 bytes, Routine Base: \$CODE\$ + 023F

; 483 0863 1


```

: 485      0864 1 GLOBAL ROUTINE SPACE_EOF : COMMON_CALL NOVALUE =
: 486      0865 1
: 487      0866 1 ++
: 488      0867 1
: 489      0868 1 FUNCTIONAL DESCRIPTION:
: 490      0869 1     This routine spaces to the end of the current file, right
: 491      0870 1     before the next file.
: 492      0871 1
: 493      0872 1 CALLING SEQUENCE:
: 494      0873 1     SPACE_EOF()
: 495      0874 1
: 496      0875 1 INPUT PARAMETERS:
: 497      0876 1     none
: 498      0877 1
: 499      0878 1 IMPLICIT INPUTS:
: 500      0879 1     CURRENT_VCB _ address of current VCB
: 501      0880 1
: 502      0881 1 OUTPUT PARAMETERS:
: 503      0882 1     none
: 504      0883 1
: 505      0884 1 IMPLICIT OUTPUTS:
: 506      0885 1     none
: 507      0886 1
: 508      0887 1 ROUTINE VALUE:
: 509      0888 1     none
: 510      0889 1
: 511      0890 1 SIDE EFFECTS:
: 512      0891 1     The tape is left positioned in front of HDR1 of the next file
: 513      0892 1
: 514      0893 1 --
: 515      0894 1
: 516      0895 2 BEGIN
: 517      0896 2
: 518      0897 2 SWITCHES NOOPTIMIZE;
: 519      0898 2
: 520      0899 2 EXTERNAL REGISTER
: 521      0900 2     COMMON_REG;
: 522      0901 2
: 523      0902 2 EXTERNAL ROUTINE
: 524      0903 2     GTNEXT_VOL_READ : JSB,           ! get next volume on read
: 525      0904 2     READ_BLOCK      : COMMON_CALL,   ! read mag tape block
: 526      0905 2     SPACE_TM       : COMMON_CALL;    ! space tm's
: 527      0906 2
: 528      0907 2 EXTERNAL
: 529      0908 2     CURRENT_UCB      : REF BBLOCK;      ! address of current ucb
: 530      0909 2
: 531      0910 2 LOCAL
: 532      0911 2     TM;
: 533      0912 2
: 534      0913 2 ! If tape is positioned in header set, space 2 tape marks
: 535      0914 2 !
: 536      0915 2
: 537      0916 2 IF .CURRENT_VCB[VCB$B_TM] EQL 0 AND .HDR1[HD1$SL_HD1LID] EQL 'HDR1'
: 538      0917 2 THEN
: 539      0918 2     SPACE_TM(2);
: 540      0919 2
: 541      0920 2 ! if in data area, space 1 tape mark

```



```

: 542      0921      2      !
: 543      0922      2      !
: 544      0923      2      IF .CURRENT_VCB[VCB$B_TM] EQLU 1
: 545      0924      2      THEN
: 546      0925      2      SPACE_TM(1);
: 547      0926      2      !
: 548      0927      2      ! Now if trailer label has not been read, read it
: 549      0928      2      !
: 550      0929      2      !
: 551      0930      2      IF .CURRENT_VCB[VCB$B_TM] EQLU 2
: 552      0931      2      AND
: 553      0932      2      (.CURRENT_UCB[UCB$SL_RECORD] - .CURRENT_VCB[VCB$SL_ST_RECORD]) EQL 0
: 554      0933      2      THEN
: 555      0934      2      !
: 556      0935      2      IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
: 557      0936      2      THEN
: 558      0937      2      ERR_EXIT(SS$_TAPEPOSLOST);
: 559      0938      2      !
: 560      0939      2      WHILE 1
: 561      0940      2      DO
: 562      0941      2      BEGIN
: 563      0942      2      IF .HDR1[HD1$SL_HD1LID] EQL 'EOF1'
: 564      0943      2      THEN
: 565      0944      2      EXITLOOP;
: 566      0945      2      !
: 567      0946      2      IF .HDR1[HD1$SL_HD1LID] NEQ 'EOV1'
: 568      0947      2      THEN
: 569      0948      2      ERR_EXIT(SS$_TAPEPOSLOST);
: 570      0949      2      !
: 571      0950      2      GTNEXT_VOL_READ();
: 572      0951      2      !
: 573      0952      2      IF .CURRENT_VCB[VCB$B_TM] EQLU 0
: 574      0953      2      THEN
: 575      0954      2      SPACE_TM(2)
: 576      0955      2      ELSE
: 577      0956      2      SPACE_TM(1);
: 578      0957      2      !
: 579      0958      2      IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
: 580      0959      2      THEN
: 581      0960      2      ERR_EXIT(SS$_TAPEPOSLOST);
: 582      0961      2      !
: 583      0962      2      END;
: 584      0963      2      !
: 585      0964      2      IF .CURRENT_VCB[VCB$B_TM] EQLU 2
: 586      0965      2      THEN
: 587      0966      2      SPACE_TM(1);
: 588      0967      2      !
: 589      0968      2      !
: 590      0969      1      END;

```

! end of routine

.EXTRN GTNEXT_VOL_READ
.EXTRN SPACE_TM

52 0000G CF 07FC 0000
9E 00002

.ENTRY SPACE_EOF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10 ; 0864
MOVAB SPACE_TM, R2 ;

		2E	AB	95	00007	TSTB	46(CURRENT_VCB)	0916
			10	12	0000A	BNEQ	1\$	
31524448	8F	0000G	DF	D1	0000C	CMPL	@HDR1, #827475016	
			05	12	00015	BNEQ	1\$	
			02	DD	00017	PUSHL	#2	0918
	62		01	FB	00019	CALLS	#1, SPACE_TM	
	01	2E	AB	91	0001C	1\$: CMPB	46(CURRENT_VCB), #1	0923
			05	12	00020	BNEQ	2\$	
			01	DD	00022	PUSHL	#1	0925
	62		01	FB	00024	CALLS	#1, SPACE_TM	
	02	2E	AB	91	00027	2\$: CMPB	46(CURRENT_VCB), #2	0930
			21	12	0002B	BNEQ	4\$	
	50	0000G	CF	D0	0002D	MOVL	CURRENT_UCB, R0	0932
30	AB	00B0	C0	D1	00032	CMPL	176(R0), 48(CURRENT_VCB)	
			14	12	00038	BNEQ	4\$	
	7E	50	8F	9A	0003A	3\$: MOVZBL	#80, -(SP)	0935
		0000G	CF	DD	0003E	PUSHL	HDR1	
	0000G	CF	02	FB	00042	CALLS	#2, READ_BLOCK	
	04		50	E8	00047	BLBS	R0, 4\$	
		0224	8F	BF	0004A	CHMU	#548	0937
31464F45	8F	0000G	DF	D1	0004E	4\$: CMPL	@HDR1, #826691397	0943
			22	13	00057	BEQL	8\$	
31564F45	8F	0000G	DF	D1	00059	CMPL	@HDR1, #827739973	0947
			04	13	00062	BEQL	5\$	
		0224	8F	BF	00064	CHMU	#548	0949
		0000G	30	00068	5\$: BSBW	GTNEXT VOL_READ		0951
		2E	AB	95	0006B	TSTB	46(CURRENT_VCB)	0953
			04	12	0006E	BNEQ	6\$	
			02	DD	00070	PUSHL	#2	0955
			02	11	00072	BRB	7\$	
			01	DD	00074	6\$: PUSHL	#1	0957
	62		01	FB	00076	7\$: CALLS	#1, SPACE_TM	
			BF	11	00079	BRB	3\$	0959
	02	2E	AB	91	0007B	8\$: CMPB	46(CURRENT_VCB), #2	0965
			05	12	0007F	BNEQ	9\$	
			01	DD	00081	PUSHL	#1	0967
	62		01	FB	00083	CALLS	#1, SPACE_TM	
			04	00086	9\$: RET			0969

; Routine Size: 135 bytes, Routine Base: \$CODE\$ + 026A

; 591 0970 1

```

: 593 0971 1 ROUTINE MAKE_CUR_FILE (LABELS) : COMMON_CALL NOVALUE =
: 594 0972 1
: 595 0973 1 ++
: 596 0974 1
: 597 0975 1 FUNCTIONAL DESCRIPTION:
: 598 0976 1 This routine updates the current file number and the Starlet
: 599 0977 1 file indicator.
: 600 0978 1
: 601 0979 1 CALLING SEQUENCE:
: 602 0980 1 MAKE_CUR_FILE(ARG1), call in kernel mode
: 603 0981 1
: 604 0982 1 INPUT PARAMETERS:
: 605 0983 1 ARG1 - address of labels
: 606 0984 1
: 607 0985 1 IMPLICIT INPUTS:
: 608 0986 1 none
: 609 0987 1
: 610 0988 1 OUTPUT PARAMETERS:
: 611 0989 1 none
: 612 0990 1
: 613 0991 1 IMPLICIT OUTPUTS:
: 614 0992 1 If file is Starlet file, then VCB$V_STARFILE = 1
: 615 0993 1 CUR_NUM is updated
: 616 0994 1
: 617 0995 1 ROUTINE VALUE:
: 618 0996 1 none
: 619 0997 1
: 620 0998 1 SIDE EFFECTS:
: 621 0999 1 none
: 622 1000 1
: 623 1001 1 --
: 624 1002 1
: 625 1003 2 BEGIN
: 626 1004 2
: 627 1005 2 EXTERNAL REGISTER
: 628 1006 2 COMMON_REG;
: 629 1007 2
: 630 1008 2 MAP
: 631 1009 2 LABELS : REF BBLOCK; ! HDR1, HDR2, and HDR3 address
: 632 1010 2
: 633 1011 2 BIND
: 634 1012 2
: 635 1013 2 ! Any file with 11 code will be supported, instead of only 11A
: 636 1014 2
: 637 1015 2 STARID = UPLIT ('DECFILE11');
: 638 1016 2
: 639 1017 2 EXTERNAL ROUTINE
: 640 1018 2 FORMAT_FID : COMMON_CALL; ! format file id
: 641 1019 2
: 642 1020 2 CURRENT_VCB[VCB$V_STARFILE] = CH$EQL(9, STARID, 9, LABELS[HD1$T_SYSCODE],0);
: 643 1021 2 FORMAT_FID(CURRENT_VCB[VCB$W_CUR_NUM]);
: 644 1022 1 END; ! end of routine

```

00 00 00 31 31 45 4C 49 46 43 45 44 002F1 .BLKB 3
002F4 P.AAD: .ASCII \DECFILE11\<0><0><0>

HEADER
V04-000

G 2
16-Sep-1984 02:22:07
14-Sep-1984 12:46:41

VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]HEADER.B32;1

Page 19
(6)

STARID= .EXTRN P.AAD
FORMAT_FID

001C 00000 MAKE_CUR_FILE:

			50	04	AC	D0	00002		WORD	Save R2,R3,R4		0971
					54	D4	00006		MOVL	LABELS, R0		1020
		3C	A0	E8	AF	09	29	00008	CLRL	R4		
						02	12	0000E	CMPC3	#9, STARID, 60(R0)		
						54	D6	00010	BNEQ	1\$		
2D	AB		01	00		54	F0	00012	INCL	R4		
						54	F0	00012	INSV	R4, #0, #1, 45(CURRENT_VCB)		
					24	AB	9F	00018	PUSHAB	36(CURRENT_VCB)		1021
						01	FB	0001B	CALLS	#1, FORMAT_FID		
		0000G	CF			04	00020		RET			1022

; Routine Size: 33 bytes, Routine Base: \$CODE\$ + 0300

; 645 1023 1

```

: 647      1024 1 GLOBAL ROUTINE UPDVCB_LEOV (BIT_VALUE) : COMMON_CALL NOVALUE =
: 648      1025 1
: 649      1026 1 ++
: 650      1027 1
: 651      1028 1 FUNCTIONAL DESCRIPTION:
: 652      1029 1     This routine sets or clears the logical end of file bit in the VCB
: 653      1030 1
: 654      1031 1 CALLING SEQUENCE:
: 655      1032 1     UPDVCB_LEOV(ARG1), called in kernel mode
: 656      1033 1
: 657      1034 1 INPUT PARAMETERS:
: 658      1035 1     value to set logical end of volume to:
: 659      1036 1         0 - clear bit
: 660      1037 1         1 - set bit
: 661      1038 1
: 662      1039 1 IMPLICIT INPUTS:
: 663      1040 1     CURRENT_VCB - address of volume control block
: 664      1041 1
: 665      1042 1 OUTPUT PARAMETERS:
: 666      1043 1     none
: 667      1044 1
: 668      1045 1 IMPLICIT OUTPUTS:
: 669      1046 1     CURRENT_VCB[VCB$V_LOGICEOVS] is set or cleared
: 670      1047 1
: 671      1048 1 ROUTINE VALUE:
: 672      1049 1     none
: 673      1050 1
: 674      1051 1 SIDE EFFECTS:
: 675      1052 1     none
: 676      1053 1
: 677      1054 1 --
: 678      1055 1
: 679      1056 2 BEGIN
: 680      1057 2
: 681      1058 2 EXTERNAL REGISTER
: 682      1059 2     COMMON_REG;
: 683      1060 2
: 684      1061 2 CURRENT_VCB[VCB$V_LOGICEOVS] = .BIT_VALUE;
: 685      1062 1 END;

```

! end of routine

OB	AB	01	01	04	AC	0000 00000	.ENTRY UPDVCB_LEOV, Save nothing	: 1024
						F0 00002	INSV BIT_VALUE, #1, #1, 11(CURRENT_VCB)	: 1061
						04 00009	RET	: 1062

; Routine Size: 10 bytes, Routine Base: \$CODE\$ + 0321

; 686 1063 1


```

: 688      1064 1 ROUTINE SET_NUMBER_OF_LABELS (NUMBER_OF_LABELS) : COMMON_CALL NOVALUE =
: 689      1065 1
: 690      1066 1 ++
: 691      1067 1
: 692      1068 1 FUNCTIONAL DESCRIPTION:
: 693      1069 1 This routine sets then number of labels read by the MTAACP in the VCB.
: 694      1070 1 This value will be used to determine how many labels are written out
: 695      1071 1 won volume switch or at end of file processing. The reason this is
: 696      1072 1 necessary is so that if a file is open with fewer labels then we support
: 697      1073 1 we do not write the greater number of LDR labels out to the tape. This
: 698      1074 1 would be a noncompliance with the ANSI standard for tape label
: 699      1075 1 processing.
: 700      1076 1
: 701      1077 1 CALLING SEQUENCE:
: 702      1078 1 SET_NUMBER_OF_LABELS(ARG1), called in kernel mode
: 703      1079 1
: 704      1080 1 INPUT PARAMETERS:
: 705      1081 1 Number of labels read.
: 706      1082 1
: 707      1083 1 IMPLICIT INPUTS:
: 708      1084 1 CURRENT_VCB - address of volume control block
: 709      1085 1
: 710      1086 1 OUTPUT PARAMETERS:
: 711      1087 1 none
: 712      1088 1
: 713      1089 1 IMPLICIT OUTPUTS:
: 714      1090 1 CURRENT_VCB[VCB$B_LBLCNT] is set
: 715      1091 1
: 716      1092 1 ROUTINE VALUE:
: 717      1093 1 none
: 718      1094 1
: 719      1095 1 SIDE EFFECTS:
: 720      1096 1 none
: 721      1097 1
: 722      1098 1 --
: 723      1099 1
: 724      1100 2 BEGIN
: 725      1101 2
: 726      1102 2 EXTERNAL REGISTER
: 727      1103 2 COMMON_REG;
: 728      1104 2
: 729      1105 2 CURRENT_VCB[VCB$B_LBLCNT] = .NUMBER_OF_LABELS;
: 730      1106 1 END; ! end of routine

```

```

                                0000 00000 SET_NUMBER_OF_LABELS:
                                .WORD Save nothing
                                48 AB 04 AC 90 00002 MOVB NUMBER_OF_LABELS, 72(CURRENT_VCB) : 1064
                                04 00007 RET : 1105
                                : 1106

; Routine Size: 8 bytes, Routine Base: $CODE$ + 032B

; 731      1107 1

```


HEADER
V04-000

J 2
16-Sep-1984 02:22:07
14-Sep-1984 12:46:41

VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]HEADER.B32;1

Page 22
(8)

: 732 1108 1 END
: 733 1109 1
: 734 1110 0 ELUDOM

PSECT SUMMARY

: Name Bytes Attributes
: \$CODE\$ 819 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

: File Total Symbols Loaded Percent Pages Mapped Processing Time
: _\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 36 0 1000 00:01.8

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS\$:HEADER/OBJ=OBJ\$:HEADER MSRC\$:HEADER/UPDATE=(ENHS\$:HEADER)

: Size: 782 code + 37 data bytes
: Run Time: 00:17.7
: Elapsed Time: 00:40.6
: Lines/CPU Min: 3771
: Lexemes/CPU-Min: 18091
: Memory Used: 163 pages
: Compilation Complete

0254 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

0255 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

